



Anti-ACOX1 (full length) polyclonal antibody (DPAB-DC2112)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description The protein encoded by this gene is the first enzyme of the fatty acid beta-oxidation pathway, which catalyzes the desaturation of acyl-CoAs to 2-trans-enoyl-CoAs. It donates electrons directly to molecular oxygen, thereby producing hydrogen peroxide. Defects in this gene result in pseudoneonatal adrenoleukodystrophy, a disease that is characterized by accumulation of very long chain fatty acids. Alternatively spliced transcript variants encoding different isoforms have been identified.

Immunogen ACOX1 (AAH10425, 1 a.a. ~ 660 a.a) full-length recombinant protein with GST tag. The sequence is
MNPDLRRERDSASFNPPELLTHILDGSPEKTRRRREIENMILNDPDFQHEDLNFLTRSQR
YEVAVRKSAIMVKKMREFGIADPDEIMWFKNFVHRGRPEPLDLHLGMFLPTLLHQATAEQ
QERFFMPAWNLEIIGTYAQTEMGHGTHLRGLETIATYDPETQEFILNSPTVTSIKWWPGGL
GKTSNHAIVLAQLITKGKCYGLHAFIVPIREIGTHKPLPGITVGDIGPKFGYDEIDNGYL
KMDNHRIPRENMLMKYAQVKPDGTYVKPLSNKLTYGTMVFVRSFLVGEAARALSKACTIA
IRYSAVRHQSEMKGPEPEPQILDFQTQQYKLFPLLATAYAFQFVGAYMKETYHRINEGIG
QGDLSELPELHALTAGLKAFTSWTANTGIEACRMACGGHGYSH

Source/Host Mouse

Species Reactivity Human

Conjugate Unconjugated

Applications WB (Recombinant protein), ELISA,

Size 50 µl

Buffer 50 % glycerol

Preservative None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ACOX1 acyl-CoA oxidase 1, palmitoyl [Homo sapiens (human)]
Official Symbol	ACOX1
Synonyms	ACOX1; acyl-CoA oxidase 1, palmitoyl; ACOX; SCOX; PALMCOX; peroxisomal acyl-coenzyme A oxidase 1; AOX; palmitoyl-CoA oxidase; straight-chain acyl-CoA oxidase; acyl-CoA oxidase, straight-chain; peroxisomal fatty acyl-CoA oxidase; acyl-Coenzyme A oxidase 1, palmitoyl;
Entrez Gene ID	51
Protein Refseq	NP_001171968
UniProt ID	Q15067
Chromosome Location	17q25.1
Pathway	Beta-oxidation of very long chain fatty acids; Biosynthesis of unsaturated fatty acids; Fatty acid degradation; Fatty acid metabolism
Function	FAD binding; PDZ domain binding; acyl-CoA dehydrogenase activity; acyl-CoA oxidase activity